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IN THE CONTED STATES PATENT AND TRADEMARK OFFICE

In re application of: Pelrine, et al.

Attorney Docket No.: SRI1P030/US-4149-4

Application No.: 10/090,430

Examiner: Unassigned

Filed: February 2, 2002

Group: Unassigned

Title: Electroactive Polymer Rotary Motors

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail to: Commissioner for Patents, Washington, DC 20231 on April 22, 2002.

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Natalie Morgar

INFORMATION DISCLOSURE STATEMENT 37 CFR §§1.56 AND 1.97(b)

Commissioner for Patents Washington, DC 20231

Dear Sir:

The references listed in the attached PTO Form 1449, copies of which are attached, may be material to examination of the above-identified patent application. Applicants submit these references in compliance with their duty of disclosure pursuant to 37 CFR §§1.56 and 1.97. The Examiner is requested to make these references of official record in this application.

This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that these references indeed constitute prior art.

This Information Disclosure Statement is filed within three (3) months of the filing date of the above-referenced application. Accordingly, it is believed that no fees are due in connection with the filing of this Information Disclosure Statement. However, if it is determined that any fees are due, the Commissioner is hereby authorized to charge such fees to Deposit Account 500388 (Order No. SRI1P030)

Respectfully submitted,

BEYER WEAVER & THOMAS, LLP

William J. Plut

Limited Recognition Under 37 C.F.R. 10.9(b)

P.O. Box 778 Berkeley, CA 94704-0778



Form 1430(Modified)

Atty Docket No. SRI1P030/US-4149-4 Application No.:

Information Disclosure Statement By Applicant Applicant:

10/090,430

Heim, et al.

Filing Date

Group

(Use Several Sheets if Necessary)

Unknown February 2, 2002

U.S. Patent Documents

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	B1	Bar-Cohen, Yoseph, JPL, Worldwide Electroactive Polymers, EAP (Artificial		
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Examiner		Date Considered		
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Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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Other Documents

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	C1	De Rossi, D., and P. Chiarelli, 1994. "Biomimetic Macromolecular		
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Form 1449 (Modified)

Atty Docket No. Application No.:
SRI1P030/US-4149-4

Information Disclosure
Statement By Applicant
Heim, et al.
Filing Date
Group
(Use Several Sheets if Necessary)

February 2, 2002

Unknown

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	D1	Kornbluh, R. D and R. E. Pelrine., "Dexterous Multiarticulated Manipulator with Electrostrictive Polymer Artificial Muscle," ITAD-7247-QR-96-175, SRI Project Number 7247, Prepared for: Office of Naval Research, November 1996		
	D2	Lang, J. M. Schlect, and R. Howe, "Electric Micromotors: Electromechanical Characteristics," Proc. IEEE Micro Robots and Teleoperators Workshop, Hyannis, Massachusetts (November 9-11, 1987).		
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	D7	Pelrine, R. and Kornbluh, "Electroactive Polymer Devices", U.S. Patent Application No. 09/619,846, filed July 20, 2000, 67 pages		
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	D9	Dielectrics with Compliant Electrodes as a Means of Actuation," Sensors and Actuators A: Physical, Vol. 64, 1998, pp.77-85.		
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	E2	Pelrine, R., R. Kornbluh, and Polymers and Electroactive P 09/779,373, filed February 7	J. Eckerle. "Energy Efficient Electroactive olymer Devices", U.S. Patent Application No. , 2001.	
	E3	Small Robots, ITAD-3393-FF California, March 1993	Y 1992 Final Report on Artificial Muscle for R-93-063, SRI International, Menlo Park,	
	E4	J. Joseph, FY 1999 Final Report on Artificial AD-10162-FR-00-27, SRI International, Menlo		
	E5	Actuated Elastomers with Over 100% Strain," <i>Science</i> , Vol. 287, No. 5454, pages 1-21, 2000 Pelrine, R., Roy Kornbluh, Jose Joseph, Qibing Pei, Seiki Chiba "Recent Progress in Artificial Muscle Micro Actuators,", SRI International, Tokyo, 1999 MITI/NEEDOIMNIC, 1999 Smela, E., O. Inganäs, Q. Pei, and I. Lundström, "Electrochemical Muscles: Micromachining Fingers and Corkscrews, "Advanced Materials, Vol.5, No. 9, pp.630-632, September 1993 Wax, S. G. and R. R. Sands, "Electroactive Polymer Actuators and Devices," Proceedings of the SPIE International Symposium on Smart Structures and Materials: Electro-Active Polymer Actuators and Devices, March 1-2, 1999, Newport Beach, California, USA., pp. 2-10.		
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	E9	Winters, J., "Muscle as an Actuator for Intelligent Robots", Robotics Research: Trans. Robotics International of SME, Scottsdale, AZ (August 21, 1986)		
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MPR 2 6 1002 E E E OFFICE OF ENROLLMENT AND DISCIPLINE .
UNITED STATES PATENT AND TRADEMARK OFFICE

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Expires: June 10, 2002

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